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(54) FLOOD BARRIER SHIELD SYSTEM

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This patent is subject to a terminal dis-

claimer.

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- (51) **Int. Cl.**

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(58) Field of Classification Search

(56) References Cited

U.S. PATENT DOCUMENTS

	2,683,354	A	7/1954	Harza
	3,161,229	A	12/1964	Sanders
	3,796,010	A	3/1974	Carlson
	3,861,081	A	1/1975	Maskell
	4,682,443	A	7/1987	Demo
	5,048,587	Α	9/1991	York
	5,077,945	A	1/1992	Koeniger
	5,184,358	A	2/1993	Gruidel et al.
	6,363,670	B1	4/2002	Dewitt
	9,702,182	B2 *	7/2017	Wexler E06B 9/02
1	1/0154752	A1	6/2011	Grover et al.
1	3/0061522	A1	3/2013	Alexander et al.

OTHER PUBLICATIONS

Zero Compress-O-Matic; Model 770AA (On sale prior to Nov. 24, 2013).

* cited by examiner

20.

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(57) ABSTRACT

A flood barrier shield system for installation in a building opening such as a door frame includes a water impervious panel having a base edge and at least two side edges generally complementary in shape to the base and side edges of the opening into which it is to be installed. Channel shaped seal housings are mounted on the panels adjacent its base and side edges which contain seal bars including a relatively rigid bar having a flexible seal mounted thereon and extending the length of the housing. The seal is located to face the opposing surface of the opening and the bar is connected to the housing by selectively operable devices which move the bar and seal between retracted and extended positions for ease of positioning the flood barrier in the opening and then forming a water tight seal along the base and sides of the system.

19 Claims, 4 Drawing Sheets

